AMENDMENTS TO THE CLAIMS:

Please cancel claims 1, 2, 3, and 16 without prejudice, add new claim 28, and amend claims 20 and 26 as follows:

Claims 1 to 4. (canceled)

5. (withdrawn) A read-and-write device for optical data transfer, said read-and-write device comprising an optical glass with an index of refraction ($\mathbf{n_d}$) greater than or equal to 1.70, an Abbé number ($\mathbf{v_d}$) that is greater than or equal to 35 and a density (\mathbf{p}) that is less than or equal to 4.5 g/cm³.

6. (withdrawn) The read-and-write device with a movable read-write head and at least one optical element, said at least one optical element comprising an optical glass with an index of refraction ($\mathbf{n_d}$) greater than or equal to 1.70, an Abbé number ($\mathbf{v_d}$) greater than or equal to 35 and a density (ρ) is less than or equal to 4.5 g/cm³.

Claims 7 to 16. (canceled)

17. (previously presented) An optical element for an optical data transfer device said optical element comprising an optical glass with an index of refraction $(\mathbf{n_d})$ greater than or equal to 1.70, an Abbé number (ν_d) greater than or equal to 35

and a density (p) that is less than or equal to 4.5 g/cm³, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

La ₂ O ₃	30 to 45
B_2O_3	30 to 40
Al_2O_3	0 to 5
PbO	0.1 to 5
Li₂O	0 to 10
Na ₂ O	0 to 10
K₂O	0 to 10
Rb₂O	0 to 10
Cs ₂ O	0 to 10
MgO	0 to 8
CaO	0 to 8
SrO	0 to 8
BaO	0 to 8
ZnO	1 to 10
TiO ₂	0 to 5
ZrO ₂	1 to 10
Y_2O_3	1 to 8
Yb ₂ O ₃	0.1 to 2
Gd_2O_3	0.1 to 5
Nb ₂ O ₅	0.1 to 10

and from 0 to 1.5 percent by weight of at least one refining agent, wherein said at least one refining agent is selected from the group consisting of SO₄-2, Cl⁻. Sb₂O₃, As₂O₃, SnO₂ and CeO₂.

18. (previously presented) An optical element for an optical data transfer device said optical element comprising an optical glass with an index of refraction (nd) greater than or equal to 1.70, an Abbé number (v_d) greater than or equal to 35 and a density (p) that is less than or equal to 4.5 g/cm³, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

La ₂ O ₃	35 to 50
B_2O_3	30 to 40
Al_2O_3	0 to 5
SiO ₂	0 to 8
GeO ₂	0.5 to 15
Li ₂ O	0 to 10
Na ₂ O	0 to 10
K ₂ O	0 to 10
Rb₂O	0 to 10

Cs ₂ O	0 to 10
SrO	0 to 2
BaO	0.1 to 7
ZnO	0 to 5
ZrO ₂	0.1 to 8
Y_2O_3	0.1 to 6
Gd_2O_3	0 to 5
Nb_2O_5	1 to 10
With Li ₂ O+Na ₂ O+K ₂ O+Rb ₂ O+Cs ₂ O	0 to 10;

and from 0 to 1.5 percent by weight of at least one refining agent, wherein said at least one refining agent is selected from the group consisting of SO₄⁻², Cl', Sb₂O₃, As₂O₃, SnO₂ and CeO₂.

19. (previously presented) An optical element for an optical data transfer device said optical element comprising an optical glass with an index of refraction (\mathbf{n}_d) greater than or equal to 1.70, an Abbé number (\mathbf{v}_d) greater than or equal to 35 and a density (\mathbf{p}) that is less than or equal to 4.5 g/cm³, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

La₂O₃ 40 to 55 B₂O₃ 22 to 32

AI_2O_3	0 to 5
SiO ₂	1 to 8
Li ₂ O	0 to 10
Na ₂ O	0 to 10
K ₂ O	0 to 10
Rb₂O	0 to 10
Cs ₂ O	0 to 10
SrO	0 to 8
BaO	0 to 2
ZnO	0.5 to 6
TiO ₂	0 to 1.0
ZrO ₂	2 to 10
Y_2O_3	3 to 11
With Li ₂ O+Na ₂ O+K ₂ O+Rb ₂ O+Cs ₂ O	0 to 8;

and from 0 to 1.5 percent by weight of at least one refining agent, wherein said at least one refining agent is selected from the group consisting of SO_4^{-2} , Cl', Sb_2O_3 , As_2O_3 , SnO_2 and CeO_2 .

20. (currently amended). An optical element for an optical data transfer device said optical element comprising an optical glass with an index of refraction ($\mathbf{n_d}$) greater than or equal to 1.70, an Abbé number (v_d) greater than or equal to 35 and a density (ρ) that is less than or equal to 4.5 g/cm³, wherein said optical

glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which comprises:

La ₂ O ₃	10 to 16
B_2O_3	1 to 8
Al_2O_3	0 to 3
SiO ₂	20 to 30
Li ₂ O	0 to [[10] <u>] 1.5</u>
Na ₂ O	0 to [[10] <u>] 8</u>
K ₂ O	0 to [[10] <u>] 8</u>
Rb ₂ O	0 to 10
Cs ₂ O	0 to 10
SrO	0 to 8
BaO	0 to 8
ZnO	1 to 8
ZrO ₂	0.5 to 6
TiO ₂	3 to 11
Nb_2O_5	10 to 18
With Li ₂ O+Na ₂ O+K ₂ O+Rb ₂ O+Cs ₂ O	0 to 8;

- 21. (withdrawn) The read-and-write device as defined in claim 5 or 6, wherein said density (p) that is less than or equal to 4.3 g/cm³.
- 22. (withdrawn) The read-and-write device as defined in claim 5 or 6, wherein a sample of said optical glass with a 25 mm thickness has a spectral transmission purity degree of at least percent 70.8 percent at a wavelength of 400 nm and a partial dispersion of no more than 0.567 in the blue spectral region.
- 23. (withdrawn) The read-and-write device as defined in claim 5 or 6, wherein said optical glass is a lanthanate borate glass, said lanthanate borate glass necessarily comprises La_2O_3 , B_2O_3 and ZrO_2 and said lanthanate borate glass includes either Y_2O_3 or Nb_2O_5 .
- 24. (withdrawn) The read-and-write device as defined in claim 5, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

La ₂ O ₃	30 to 45
B ₂ O ₃	30 to 40
Al ₂ O ₃	0 to 5
PbO	0.1 to 5
Li ₂ O	0 to 10
Na ₂ O	0 to 10
K ₂ O	0 to 10

Rb₂O	0 to 10
Cs ₂ O	0 to 10
MgO	0 to 8
CaO	0 to 8
SrO	0 to 8
BaO	0 to 8
ZnO	1 to 10
TiO ₂	0 to 5
ZrO ₂	1 to 10
Y_2O_3	1 to 8
Yb ₂ O ₃	0.1 to 2
Gd_2O_3	0.1 to 5
Nb ₂ O ₅	0.1 to 10
with MgO+CaO+SrO+BaO	0 to 10
with Li ₂ O+Na ₂ O+K ₂ O+Rb ₂ O+Cs ₂ O	0 to 10;

and from 0 to 1.5 percent by weight of at least one refining agent, wherein said at least one refining agent is selected from the group consisting of SO_4^{-2} , $C\Gamma$, Sb_2O_3 , As_2O_3 , SnO_2 and CeO_2 .

25. (withdrawn) The read-and-write device as defined in claim 5, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

La ₂ O ₃	35 to 50
B_2O_3	30 to 40
Al_2O_3	0 to 5
SiO ₂	0 to 8
GeO ₂	0.5 to 15
Li ₂ O	0 to 10
Na ₂ O	0 to 10
K₂O	0 to 10
Rb ₂ O	0 to 10
Cs ₂ O	0 to 10
SrO	0 to 2
BaO	0.1 to 7
ZnO	0 to 5
ZrO ₂	0.1 to 8
Y_2O_3	0.1 to 6
Gd_2O_3	0 to 5
Nb ₂ O ₅	1 to 10
With Li ₂ O+Na ₂ O+K ₂ O+Rb ₂ O+Cs ₂ O	0 to 10;

26. (withdrawn – currently amended) The read-and-write device as defined in claim 5, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

La ₂ O ₃	40 to 55
B_2O_3	22 to 32
Al ₂ O ₃	0 to 5
SiO ₂	1 to 8
Li ₂ O	0 to 10
Na₂O	0 to 10
K ₂ O	0 to 10
Rb₂O	0 to 10
Cs ₂ O	0 to 10
SrO	0 to 8
BaO	0 to 2
ZnO	0.5 to 6
TiO ₂	0 to [[3]] 1.0
ZrO ₂	2 to 10
Y_2O_3	3 to 11
With Li ₂ O+Na ₂ O+K ₂ O+Rb ₂ O+Cs ₂ O	0 to 8;

27. (withdrawn) The read-and-write device as defined in claim 5, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

La ₂ O ₃	10 to 16
B_2O_3	1 to 8
Al ₂ O ₃	0 to 3
SiO ₂	20 to 30
Li ₂ O	0 to 10
Na ₂ O	0 to 10
K₂O	0 to 10
Rb₂O	0 to 10
Cs ₂ O	0 to 10
SrO	0 to 8
BaO	0 to 8
ZnO	1 to 8
ZrO ₂	0.5 to 6
TiO ₂	3 to 11
Nb_2O_5	10 to 18
With Li ₂ O+Na ₂ O+K ₂ O+Rb ₂ O+Cs ₂ O	0 to 8;

and from 0 to 1.5 percent by weight of at least one refining agent, wherein said at least one refining agent is selected from the group consisting of SO₄-², Cl',

Sb₂O₃, As₂O₃, SnO₂ and CeO₂.

28. (new) An optical element for an optical data transfer device said optical element comprising an optical glass with an index of refraction (n_d) greater than or equal to 1.70, an Abbé number (v_d) greater than or equal to 35 and a density (ρ) that is less than or equal to 4.5 g/cm³, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which comprises:

La ₂ O ₃	10 to 16
B_2O_3	1 to 8
Al_2O_3	0 to 3
SiO ₂	20 to 30
Li ₂ O	0 to 1.5
Na ₂ O	0 to 8
K ₂ O	0 to 8
Rb ₂ O	0 to 10
Cs ₂ O	0 to 10
CaO	17.8 to 30
SrO	0 to 8
BaO	0 to 8
ZnO	1 to 8
ZrO ₂	0.5 to 6

 $\begin{tabular}{ll} TiO_2 & 3 to 11 \\ Nb_2O_5 & 10 to 18 \\ With Li_2O+Na_2O+K_2O+Rb_2O+Cs_2O & 0 to 8; \\ \end{tabular}$